

The Frontispiece
of the Chronological
Automaton or Self-
moving EPHEMERIS
of y^e Celestial Motions, &c.
Representing y^e phenomena
at Noon March 30: 1691
Invented and made by
SAMUEL WATSON
of Coventry Watch-Maker.

A Brief Explication of the parts
of the first table
a The center with a little Ball
Representing y^e globe of y^e Earth
b The center of her Epicycle Shew-
ing her middle Motion
c The Moon in her Epicycle Shew-
ing her apparent place in y^e Zodiac
her Apogee and perigee have-
ing the Hemisphere next the Sun
always Illuminated Serving to
Shew her Various phases &c.
d The North Node having their
proper Motion
e The South Node proper Motion
f The Sun placed here the better
to Shew his Aspects with y^e Moon
and Eclipses;
The Eclipses, their quantities, Dura-
tion and the parts of the earth
which they are Visible in &c.
are to be knowne by considering
the Latitude of the Moon in
her conjunction and opposition
with the Sun and the Longitude
and Latitude of the Respective
places; the Rules for which are
here for brevity sake omitted;
g Remarkable Stars in their pro-
per Longitudes which are more
Remote from the Ecclyptick then
tho^t in the former table;
The other parts of this table are
Sufficiently Explained in the former
Table.

h The innermost Circle by figures
from 1 to 28. tells the Cycle of
the Sun; The second shows the
Dominical Letter; the next shows
the months, and the 4 Circles
Surrounding it, tells the day of the
Month, to be accounted on the
innermost the first year after
Bisextile; and so Successively
to the outermost, which serves for
leape Year.

i The innermost Circle shows the
Indiction; the middle the sol-
den Number; the outermost
the Epact;
The Middle Table
S.M.T.W.T.F.S. are the first
Letters of the days of the weeke
with their primary planet and
in the Circle encompassing them
is shewed the hours of the Day
computed from 12 to 12;
A hole for a Key whereby the whole
Machine as depending on one
Axis may be moved for any
Number of Days months or yeares
either backward or forward
presenting to the eye the foremen-
tioned phenomena happening in
that space of time, and then being
returned to the present yeare
Month Day and hour Keeps
the time for the future, so that
upon occasion of any neglect in
drawing up the weight which
moves the long pendulum (which
neede be done but once in Eight
Days) the whole is set right;

ii The Lamina on the Eastern and
Western sides of the table with the
Characters of the 12 signs of the
Ecclyptick Filled for the Latitude
of London Shewing the length and
Shortness of the Day, And the exact
Rising and Setting of the Signes of
the Zodiac with the Stars and planets
in them, each Signe then Rising
when it comes over against its
Correspondent Signe in the
Eastern Lamina and setting
when it comes to the like on the
other side, And the arch above
or below these Shew (and with
the Circle of hours) the space
of time which they make above or
below the Horizon



The Explication
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